



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DATE: JUL 21 2017
SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Scrap Metal Services, L.L.C., Blue Island, Illinois
FROM: Scott Connolly, Environmental Engineer
AECAB (IL/IN)
THRU: Nathan Frank, Section Chief
AECAB (IL/IN)
TO: File

BASIC INFORMATION

Facility Name: Scrap Metal Services L.L.C.

Facility Location: 3000 W 139th Street, Blue Island, Illinois 60406

Date of Inspection: July 13, 2017

Lead Inspector: Scott Connolly, Environmental Engineer, US EPA

Other Attendees:

1. Molly Smith, Environmental Scientist, US EPA
2. George Ordija, Environmental Protection Engineer, Illinois EPA
3. Tim O'Connor, Operations Manager, Scrap Metal Services, L.L.C.
4. Kerry Davidson, Executive VP, Human Resources & General Counsel, Scrap Metal Services, L.L.C.

Purpose of Inspection: To Determine Compliance with the Clean Air Act and the Illinois State Implementation Plan.

Facility Type: Scrap Metal Processing and Recycling Facility

Arrival Time: 8:40 am

Departure Time: 11:20 am

Inspection Type:

- ☒ Unannounced Inspection
- ☐ Announced Inspection

OPENING CONFERENCE

- ☒ Credentials Presented
- ☒ CBI warning to facility provided

The following information was obtained verbally from Tim O'Connor unless otherwise noted.

Company Ownership: The facility was owned and operated as Metal Recycling Systems, Inc. until June 4, 2014, when it was purchased by Scrap Metal Services, L.L.C. (SMS).

Process Description:

SMS obtains and processes light gauge scrap metal received by truck at the facility. Generally, loads of scrap metal are unloaded into a primary scrap pile near the entrance of the facility. For the initial screening of material, Scrap Inspectors check the incoming metal items for non-conforming material, which includes propane tanks and non-metals, and separate out items containing refrigerant. Secondary inspection takes place when material is moved to a scrap pile at the shredder. Larger metal pieces are sliced with a mobile shear. The shredder processes mostly postconsumer ferrous and non-ferrous scrap. Cranes load scrap metal onto a conveyor, which feeds the metal into the hammermill shredder. The shredder has remote controls and is operated by the crane operator. The top feeding hammermill is equipped with an enclosure and canopy designed to prevent material from exiting the top of the shredder. A water injection system sprays water into the shredder to reduce dust and to cool the metal. Shredded metal exits the shredder and is fed through a magnetic separator, which separates non-magnetics from ferrous metal. Non-ferrous metals are sent to the "heavy media system." Aluminum and copper are separated in an eddy current separator and a water separator. All remaining material is sent by truck to another SMS facility in New Carlisle, Indiana for further processing. Ferrous metal is transported by truck to local steel mills.

Staff Interview: The facility does not currently own or operate chlorofluorocarbon (CFC) recovery machines, instead it contracts Rapid Recovery to remove CFCs from air conditioners, refrigerators and other items. Mr. O'Connor stated that the facility collects refrigerators and other CFC containing material until there is a large enough number of items for recovery, usually about 1-3 months. Facility staff stated that the 1,000 horsepower shredder, manufactured by American Pulverizer, operates at about 12-14 tons of scrap per hour. Cars and heavy gauge metals are not shredded at this location and are instead sent to the SMS facility in New Carlisle. Facility staff stated that they received a new Lifetime Operating permit on January 1, 2015, but switched to a Registration of Small Sources (ROSS) permit on April 21, 2016.

TOUR INFORMATION

EPA toured the facility: Yes

Data Collected and Observations:

There were no shredder operations at the time of the inspection. SMS is in the processes of rebuilding the shredder infeed conveyor, which included pouring a new concrete pad. At the time of the inspection the infeed conveyor had been removed and the shredder was open and inoperable. Facility staff stated that the shredder has been down since June 2017 and will not be operational until August 2017. EPA viewed a refrigerant evacuation verification statement form required to be completed by SMS' customers. Verification statements were done electronically and records were maintained on-site.

Field Measurements: were not taken during this inspection.

RECORDS REVIEW

- Shredder Schematic (1 copy obtained)
 - Shredder set up at the time of the inspection indicated by dashed lines (see Appendix B).
 - The configuration of rubber curtains used to prevent scrap from flying out the shredder is detailed in the diagram.
- Facility & Shredder Emissions Calculations Spreadsheet, prepared by Trinity Consultants (electronic, requested copy).
 - Emissions calculations performed to assure that the facility is still eligible for the Illinois EPA ROSS permit program.

CLOSING CONFERENCE**Requested documents:**

- Emissions Calculations Spreadsheet

SIGNATURES

Lead Inspector:



Date:

7/21/17

Section Chief:



Date:

7/21/17

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APPENDICES AND ATTACHMENTS

- Appendix A: Photos
- Appendix B: Attachments

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APPENDIX A: PHOTOS

SEE ATTACHED CD FOR APPENDIX A PHOTOS.

Photo No.	Date and Time	Description
RIMG0002	July 13, 2017 at 9:20 AM	Primary Scrap storage pile. Contains mostly unsorted post-consumer scrap.
RIMG0003	July 13, 2017 at 9:28 AM	Refrigerator storage area: refrigerators are separated from scrap pile and are stored in this areas until the 3 rd party reclaimer drains them. Propane tanks separated during secondary inspections are also stored here.
RIMG0004	July 13, 2017 at 9:29 AM	Additional Refrigerators that have been drained of CFCs as noted by the orange tags.
RIMG0005	July 13, 2017 at 9:34 AM	Shredder equipment building and infeed conveyor construction area. The water spray system and electronic controls are stored in this building and the infeed conveyor was located here.
RIMG0006	July 13, 2017 at 9:34 AM	Construction area for infeed conveyor.
RIMG0007	July 13, 2017 at 9:35 AM	The front of the shredder. Scrap metal should enter the shredder from this side of the shredder.
RIMG0008	July 13, 2017 at 9:40 AM	The back of the shredder, including magnetic separator. The shredder is currently titled back. When operational the shredder column should be vertical and perpendicular to the ground.

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APPENDIX B: ATTACHMENT

ATTACHMENT #1: SHREDDER SCHEMATIC

ATTACHMENT #2: INSPECTION NOTES